

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
3 February 2005 (03.02.2005)

PCT

(10) International Publication Number  
**WO 2005/010635 A3**

(51) International Patent Classification<sup>7</sup>: **H04Q 7/32, 7/20**

(21) International Application Number:  
PCT/IB2004/051349

(22) International Filing Date: 30 July 2004 (30.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/491,049 30 July 2003 (30.07.2003) US

(71) Applicant and

(72) Inventor: **KUMAR, Rajendra** [US/US]; 712 Stonecliff  
Drive, Akron, OH 44313 (US).

(74) Agent: **MUZILLA, David**; 1225 West Market Street,  
Akron, OH 44313-7188 (US).

(81) Designated States (*unless otherwise indicated, for every  
kind of national protection available*): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

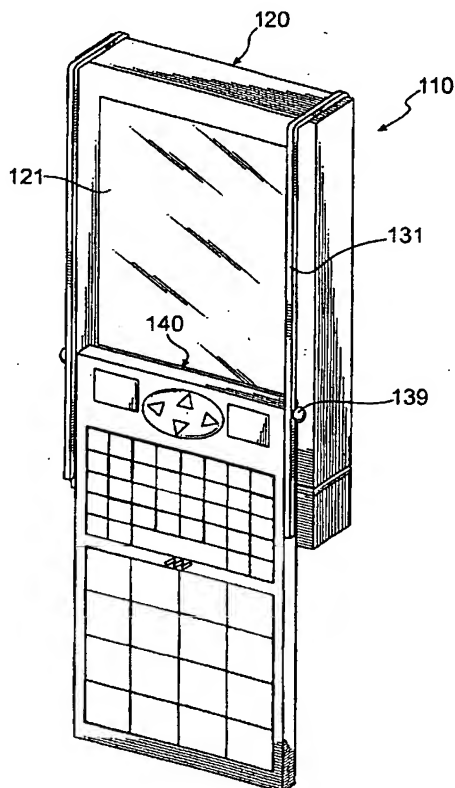
(84) Designated States (*unless otherwise indicated, for every  
kind of regional protection available*): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,  
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,  
GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

[Continued on next page]

(54) Title: A HANDHELD COMPUTING AND COMMUNICATION DEVICE WITH A MULTIPosition KEYBOARD LID



(57) Abstract: A portable, digital electronic device (10) is disclosed which comprises a host unit (20), including a display (21), and a keyboard module (40) connected to the host unit (20) and including at least one group of keys (41, 42, 43). The keyboard module (40) is moveable between at least two allowable positions with respect to the host unit (20), wherein a first allowable position of at least two allowable positions results in the keyboard module (40) substantially covering the display (21), and wherein a second allowable position of at least two allowable positions results in the display (21) being at least partially exposed.